

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Reclamation District No. 0827 Elkhorn**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	1.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	-			
DWR Inspector	John Williamson			
Accompanied By	Dan Ramos Ramco, RD 827			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35		John Williamson

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1				Operations & Maintenance Manuals	WS A Ma		°	°	5
DWR ID: DWR_RD0827_01_s_2013_5									
2				Emergency Supplies & Equipment	WS A Ma		°	°	7
DWR ID: DWR_RD0827_01_s_2013_7									
3				Flood Preparedness & Training	WS A Ma		°	°	9
DWR ID: DWR_RD0827_01_s_2013_9									
4	0.27	0.27		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.672294 ° -121.627237 °	38.672294 ° -121.627237 °	4 Y
DWR ID: DWR_RD0827_01_s_2013_4									
5	0.27	0.27		Erosion / Bank Caving	WS M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	38.672436 ° -121.626851 °	38.672436 ° -121.626851 °	3 Y
DWR ID: DWR_RD0827_01_s_2012_3									
6	0.31	0.37		Trim / Thin Trees	WSA/W Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.671959 ° -121.626305 °	38.671376 ° -121.625608 °	2 Y
DWR ID: DWR_RD0827_01_s_2012_2									
7	0.37	0.37		Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.671200 ° -121.625835 °	38.671200 ° -121.625835 °	12 Y
DWR ID: DWR_RD0827_01_s_2013_12									
8	0.54	0.54		Trim / Thin Trees	LS N Ma	T5 : Tree stumps.	38.669445 ° -121.623574 °	38.669445 ° -121.623574 °	13 Y
DWR ID: DWR_RD0827_01_s_2012_13									
9	0.60	0.60		Encroachments	LS C Ma	PR : Prunings	38.668820 ° -121.622829 °	38.668820 ° -121.622829 °	8
DWR ID: DWR_RD0827_01_s_2012_8									
10	0.61	0.92		Vegetation	WSA/W Ob	V8 : Environmental Requirements.	38.668873 ° -121.622513 °	38.665750 ° -121.618523 °	22 Y
DWR ID: DWR_RD0827_01_s_2012_22									
11	0.65	0.65		Erosion / Bank Caving	LS M Ma	E1 : Note and monitor erosion site.	38.668459 ° -121.622350 °	38.668459 ° -121.622350 °	11 Y
DWR ID: DWR_RD0827_01_s_2013_11									
12	0.83	0.83		Encroachments	LS C Ma	PR : Prunings	38.666475 ° -121.619835 °	38.666475 ° -121.619835 °	6
DWR ID: DWR_RD0827_01_s_2012_6									
13	0.90	0.90		Encroachments	LS M En	PR : Prunings	38.665823 ° -121.619047 °	38.665823 ° -121.619047 °	10 Y
DWR ID: DWR_RD0827_01_s_2013_10									
14	0.92	1.33		Vegetation	WSA/W Ma	V7 : Trees / Woody Vegetation	38.665777 ° -121.618523 °	38.661267 ° -121.613803 °	23 Y
DWR ID: DWR_RD0827_01_s_2012_23									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35		John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.27
End Levee Mile	0.27
Location	Land Side
Category	
Item	Animal Control
A large rodent hole on the levee slope. Photo fall 2012.	
johngw_s_20130221_442.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.27
End Levee Mile	0.27
Location	Water Side
Category	
Item	Erosion / Bank Caving
The erosion has gotten worst over the winter. Spring 2013	
johngw_s_20130408_914.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.27
End Levee Mile	0.27
Location	Water Side
Category	
Item	Erosion / Bank Caving
The surface run off has increased the erosion damage. Spring 2013	
johngw_s_20130408_915.JPG	



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35		John Williamson

Levee Mile Report Line	6
Start Levee Mile	0.31
End Levee Mile	0.37
Location	Water Side
Category	
Item	Trim / Thin Trees
Thick vegetation on the waterside. Fall 2011	
johngw_s_20130221_439.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.37
End Levee Mile	0.37
Location	Land Side
Category	
Item	Animal Control
A couple of rodent holes on the landside levee slope. Spring 2013	
johngw_s_20130408_920.JPG	



Levee Mile Report Line	8
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Land Side
Category	
Item	Trim / Thin Trees
A tree stump on the levee slope. Photo fall 2012.	
johngw_s_20130221_445.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35		John Williamson

Levee Mile Report Line	10
Start Levee Mile	0.61
End Levee Mile	0.92
Location	Water Side
Category	
Item	Vegetation
Revegetaion site with fencing, irrigation and stakes to hold netting. Photo taken spring 2012.	
johngw_s_20130221_446.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.61
End Levee Mile	0.92
Location	Water Side
Category	
Item	Vegetation
Revegetation site spring 2012.	
johngw_s_20130221_447.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.61
End Levee Mile	0.92
Location	Water Side
Category	
Item	Vegetation
The revegetation site has grown and blocks visibility. Spring 2013	
johngw_s_20130408_916.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35		John Williamson

Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.65
Location	Land Side
Category	
Item	Erosion / Bank Caving

The surface and impact erosion has gotten worst. Spring 2013

johngw_s_20130408_918.JPG



Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.65
Location	Land Side
Category	
Item	Erosion / Bank Caving

Erosion with the depth greater than 3" but less than 1'. Spring 2013

johngw_s_20130408_919.JPG



Levee Mile Report Line	13
Start Levee Mile	0.90
End Levee Mile	0.90
Location	Land Side
Category	
Item	Encroachments

The trees are being trimmed and the brush piles need to be removed. Spring 2013

johngw_s_20130408_917.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35		John Williamson

Levee Mile Report Line	14
Start Levee Mile	0.92
End Levee Mile	1.33
Location	Water Side
Category	
Item	Vegetation

Trees on the very wide waterside berm. Photo taken spring 2012.

johngw_s_20130221_449.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

Waterway			Bank	Unit Miles
Unit No. 02 Yolo Bypass			Left	2.84
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	-			
DWR Inspector	John Williamson			
Accompanied By	Dan Ramos Ramco			

Summer & Winter Inspections

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- a) completion of the inspection
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84		John Williamson

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.01	2.79		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676418 ° -121.642788 °	38.641727 ° -121.620756 °	6 Y
								DWR ID: DWR_RD0827_02_s_2013_6		
2	0.01	2.79		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676418 ° -121.642787 °	38.641727 ° -121.620756 °	9 Y
								DWR ID: DWR_RD0827_02_s_2013_9		
3	0.01	0.53		Encroachments	LS	M En	DT : Ditch	38.676440 ° -121.642747 °	38.669401 ° -121.641417 °	2 Y
								DWR ID: DWR_RD0827_02_f_2012_2		
4	0.11	0.11		Trim / Thin Trees	CR	N Ma	T5 : Tree stumps.	38.675236 ° -121.642985 °	38.675236 ° -121.642985 °	4 Y
								DWR ID: DWR_RD0827_02_s_2012_4		
5	1.98	1.98		Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.652099 ° -121.627137 °	38.652099 ° -121.627137 °	1
								DWR ID: DWR_RD0827_02_f_2012_1		
6	2.08	2.08		Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.650867 ° -121.626385 °	38.650867 ° -121.626385 °	5
								DWR ID: DWR_RD0827_02_f_2012_5		
7	2.16	2.16		Cracking	LS	C Ma	CR1 : Monitor and have inspected by geotechnical engineer.	38.649765 ° -121.625699 °	38.649765 ° -121.625699 °	7
								DWR ID: DWR_RD0827_02_f_2012_7		
8	2.31	2.31		Slope Stability	LS	M Ma	S1 : Repair slope instability. Inspector Comments: There is cracking along the levee slope not greater than 200 feet. Need to monitor.	38.647703 ° -121.624450 °	38.647703 ° -121.624450 °	24 Y
								DWR ID: DWR_RD0827_02_s_2012_24		
9	2.76	2.76		Erosion / Bank Caving	CR	C Ma	Inspector Comments: Hole in crown at pipe crossing maybe leak in pipe.	38.641904 ° -121.620859 °	38.641904 ° -121.620859 °	8
								DWR ID: DWR_RD0827_02_f_2012_8		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84		John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	2.79
Location	Land Side
Category	
Item	Vegetation
The grasses are taller than 12" in height. Spring 2013	
johngw_s_20130408_897.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	2.79
Location	Water Side
Category	
Item	Vegetation
The grasses are taller than 12" in height. Spring 2013	
johngw_s_20130408_898.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.01
End Levee Mile	0.53
Location	Land Side
Category	
Item	Encroachments
Ditch runs along the landside toe. Photo fall 2012.	
johngw_s_20130221_451.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84		John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.11
End Levee Mile	0.11
Location	Crown
Category	
Item	Trim / Thin Trees

A tree stump on the levee shoulder. Photo fall 2012.

johngw_s_20130221_453.jpg



Levee Mile Report Line	8
Start Levee Mile	2.31
End Levee Mile	2.31
Location	Land Side
Category	
Item	Slope Stability

A buldge in the levee slope. Photo fall 2012.

johngw_s_20130221_459.jpg



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement